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| Application : <u>10/006661</u> | Examiner : <u>Nguyen</u> | GAU : <u>2833</u> |
| From : <u>PAP</u> | Location : <u>IDC</u> FMF FDC | Date : <u>12/15/04</u> |
| Tracking # : <u>05903947</u> | | Week Date : <u>2/16/04</u> |

| DOC CODE | DOC DATE | MISCELLANEOUS |
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| <input type="checkbox"/> 1449 | | <input type="checkbox"/> Continuing Data |
| <input type="checkbox"/> IDS | | <input type="checkbox"/> Foreign Priority |
| <input checked="" type="checkbox"/> CLM | <u>7/11/2003</u> <u>6/25/2007</u> | <input type="checkbox"/> Document Legibility |
| <input type="checkbox"/> IIFW | | <input type="checkbox"/> Fees |
| <input type="checkbox"/> SRFW | | <input type="checkbox"/> Other |
| <input type="checkbox"/> DRW | | |
| <input type="checkbox"/> OATH | | |
| <input type="checkbox"/> 312 | | |
| <input type="checkbox"/> SPEC | | |

[RUSH] MESSAGE: Original claims 26, 31, 32, 39, 40, 41
have missing data due to scanning.

Thank you

[XRUSH] RESPONSE: Please read attached copy. we
do not have the hard case to this file.
only use claims dated 7/11/2003. a copy of
the claims have been provided, disregard claims dated
6/25/04.

James O'Leary 703-836-6460 INITIALS: PS

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.
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June 1, 2005

FACSIMILE TRANSMISSION COVER SHEETTo: Ms. Patricia Small
U.S. Patent and Trademark Office

Fax: 703-746-4272

From: Kentaro Higuchi

Your Ref.: 10/006,661

Our Ref.: 111411

Number of Pages Sent (Including cover sheet): 2

Prepared By: kxh

Comments:

Dear Ms. Small,

As requested, attached is a copy of the July 11, 2003 Amendment. The Amendment includes the claims that were allowed by the Examiner in the August 12, 2003 Notice of Allowance. Please contact us if you have any questions.

Best regards,
Kentaro Higuchi

Sent by: kxh

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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Ryuji NAKANISHI

Group Art Unit: 2833

Application No.: 10/006,661

Examiner: T. Nguyen

Filed: December 10, 2001

Docket No.: 111411

For: A FUSE MODULE

AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

COPY

Sir:

In reply to the April 23, 2003 Office Action, please consider the following:

Amendments to the Claims are reflected in the listing of claims;

Remarks.

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Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-23. (Canceled)

24. (Currently Amended) ~~A fuse module according to claim 23,~~ A fuse module comprising:
a plurality of fuse pieces, each including a plate-shape input terminal, a plate-shape output terminal, and a fusing element connected between the output and input terminals;
a fuse casing made of an insulating material and including a plurality of fuse mount holes that separately receive entire bodies of the fuse pieces; and
tab terminals incorporated in the fuse casing and electrically connected with the output and input terminals respectively, wherein the each of the fuse pieces is vertically mounted in the fuse mount hole and the tab terminals engage corresponding plate-shape output or input terminals and wherein each of the fuse mount holes includes a first slit for receiving the input terminal, a second slit for receiving the output terminal, and a hole section for receiving the fusing element, and the width of the slits is substantially equal to the thickness of the output and input terminals.

25. (Currently Amended) A fuse module according to claim 2440, wherein the fuse mount holes are arranged in a row with a same pitch.

26. (Previously Added) A fuse module according to claim 25, wherein the width of the hole section is larger than that of the slits.

27. (Previously Added) A fuse module according to claim 26, further comprising an electrically shorting member engaging the input terminals to be electrically connected therewith.

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28. (Previously Added) A fuse module according to claim 27, wherein the electrically shorting member includes a plurality of press contact blades forming a comb shape, each two of the blades forming a pair to engage the input terminal on opposite sides thereof.

29. (Previously Amended) A fuse module according to claim 28, wherein the pairs of press contact blades are arranged at same pitches.

30. (Previously Added) A fuse module according to claim 28, wherein the fuse casing includes a top opening where the plurality of fuse mounts holes are formed, and wherein the busbars extend along the bottom of the fuse casing and the tab terminals extend upward from the busbar, a shorting member receiving slit is formed on the side of the fuse casing to receive the shorting member which extends through the shorting member receiving slit and engage the input terminals at right angle with the input terminal.

31. (Currently Amended) ~~A fuse module according to claim 31, further comprising a~~
fuse module comprising:

a plurality of fuse pieces, each including a plate-shape input terminal, a plate-shape output terminal, and a fusing element connected between the output and input terminals;

a fuse casing made of an insulating material and including a plurality of fuse mount holes that separately receive entire bodies the fuse pieces; and

tab terminals incorporated in the fuse casing and electrically connected with the output and input terminals respectively, a plurality of input connection terminals interposed between and engage the input terminals and tab terminals, and an output connection terminal interposed between and engage the output terminals and the tab terminals.

32. (Currently Amended) A fuse module according to claim ~~31~~41, wherein the fuse pieces are substantially horizontally disposed on the fuse casing and arranged in a row at

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specified intervals, with the direction from the input to output terminals of the fuse pieces being normal to the direction of the row.

33. (Previously Added) A fuse module according to claim 32, wherein the input connection terminals are separated from one another and are arranged in a row to be in contact with respectively corresponding input terminals.

34. (Previously Added) A fuse module according to claim 33, wherein the input terminals and the input connection terminals are arranged at equal pitches.

35. (Previously Added) A fuse module according to claim 34, wherein the output connection terminal extends along the row to be in contact with a plurality of output terminals.

36. (Previously Added) A fuse module according to claim 35, wherein each of the input connection terminals includes a horizontal portion to be in contact with the input terminal, and a vertically extending portion to engage the tab terminal, and the output terminals, and a vertically extending portion to engage the tab terminal.

37. (Previously Added) A fuse module according to claim 36, wherein the fuse casing includes a side wall extending above the fuse pieces mounted in the fuse case, and further comprising a cover for enclosing the fuse pieces within the fuse casing.

38. (Previously Added) A fuse module according to claim 30, wherein each of the tab terminals has forked ends between which input and output terminal of the fuse piece is sandwiched.

39. (Previously Added) A fuse module according to claim 37, wherein each of the vertically extending portions of the input and output connection terminals has forked ends between which the tab terminal is sandwiched.

40. (Previously Added) A fuse module comprising:

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a plurality of fuse pieces, each including a plate-shape input terminal, a plate-shape output terminal, and a fusing element connected between the output and input terminals;

a fuse casing made of an insulating material and including a plurality of fuse mount holes that separately receive the fuse pieces; and

tab terminals incorporated in the fuse casing and electrically connected with the output and input terminals respectively,

wherein the each of the fuse pieces is vertically mounted in the fuse mount hole and the tab terminals engage corresponding plate-shape output and input terminals, and

each of the fuse mount holes includes a first slit for receiving the input terminal, a second slit for receiving the output terminal, and a hole section for receiving the fusing element, and the width of the slits is substantially equal to the thickness of the output and input terminals.

41. (Previously Added) A fuse module comprising:

a plurality of fuse pieces, each including a plate-shape input terminal, a plate-shape output terminal, and a fusing element connected between the output and input terminals;

a fuse casing made of an insulating material and including a plurality of fuse mount holes that separately receive the fuse pieces;

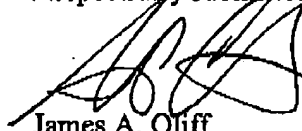
tab terminals incorporated in the fuse casing and electrically connected with the output and input terminals respectively, and

a plurality of input connection terminals interposed between and engaging in input terminals and tab terminals, and an output connection terminal interposed between and engaging the output terminals and the tab terminals.

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Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,



James A. Oliff

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Stephen P. Catlin

Registration No. 36,101

JAO:SPC/can

Date: July 11, 2003

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